CERES Systems Engineering Committee

Members: Maria Mitchum, NASA, DMO
Sandy Nolan, SAIC
Jill Travers, DAAC
Sue Sorlie, DAAC

Charter: Serve as a forum for resolving issues which affect more than one working group. Report to CERES Data Management Team

December 8, 1998 1:00 pm.
Denise Cooper joined the committee to discuss the second draft of the Instrument Operator's Manual. Denise will incorporate the comments discussed.

After the review, Jill asked a couple of questions regarding ancillary data.

1. Did Maria ask the CERES Subsystems about renaming all ancillary data to a standard naming convention? This had not yet been done.

SSM/I Reprocessing
2. The DAAC recently learned that the SSM/I data from GHRC is processed a second time. The DAAC had originally been receiving the data after the first processing. Ed Kizer indicated that the second processed data would be preferable. The DAAC requested GHRC to resend data (the reprocessed second set) from 12/21/97 to 11/30/98. There is no versioning on these files, so the question to Maria was could the DAAC delete the first version of any files not yet used in MOA processing (May 27, 1998 - November 30, 1998). The answer was yes. The second question was should the set of files used in processing be retained and renamed so that the new set of files can be ingested. The answer was yes.

Meeting adjourned at 2:30 pm. djt

DAO Telecon Minutes
Thursday, December 10, 1998, 10am
Room 2316, B1268C

LaRC Attendees: Chris Harris, Sue Sorlie, Vertley Hopson, Jill Travers, Kathleen Morris, Maria Mitchum, Ed Kizer, Lisa Coleman, and Haldun Direskeneli

DAO Attendees: Man-Li Wu, Dave Lamich, Mahendra Karki, and Gi-Kong Kim.

The purpose of the telecon was to discuss CERES-DAO operational lessons learned. Although CERES has plans to move to using ECMWF data in 1999, the DAAC felt a need to communicate CERES operational lessons learned to DAO.

Sue gave an overview of the CERES/DAO experience. DAO data through 8/29/98 are archived at the

DAAC (as of 12/9). DAO data comprise approximately 30% of the total number of files in the archive which is about 12% of the total volume. DAO data are the key input to MOA processing which in turn is key input to 3 CERES subsystems.

The DAAC discussed the following problems that have been encountered during ingest:

- Versioning: The DAAC has on occasion received duplicate files for a data day. These files have neither a version number nor any accompanying documentation to distinguish the files from one another.
- DAO responded that they are aware of problem and plan to institute versioning with the release of the next generation of DAO data (GEOS-AM, also called GEOS-3). The planned naming scheme may be found in the 'File Specification for GEOS-3 Gridded Output' document which available from the following URL:

  http://dao.gsfc.nasa.gov/subpages/documentation.html

- Timely delivery of data products: The Interface Control Document (ICD) between the DAAC and DAO, which incidentally was written only for the GEOS-1 (DAO) data product, spells out that delivery will be within a 7 day period. There was a period of time this summer when the DAAC did not receive any DAO data. That has changed and the DAAC now has data through 8/29 and getting more. However, we are not getting data within 7 days. DAO informed us that we would never get GEOS-2 data within 7 days. This points out that a new ICD needs to be written for GEOS-2 and GEOS-AM products or the old one needs to be updated to include GEOS-2 and -AM products.

Other issues or information noted included:

DAO plans to start using GEOS-AM with the launch of the EOS-AM1 satellite. There are no plans to go back and reprocess the GEOS-2 data (since Dec. 97) with the GEOS-AM algorithm.

GEOS-AM will be on a 1x1 degree grid and will include 48 sigma levels. (GEOS-2 had 28 levels and is on a 2x2.5 deg grid). It is expected the volume will increase by a factor of 2 or 3 (DAO estimate) or as much as 6 or 7 (Kizer estimate).

GEOS-AM will be in HDF-EOS format.

GEOS-AM data will be processed in two runs. The first run, called first look, will be run within 12-15 hours with a more complete (i.e., better) run, called late look, 2-3 weeks later. CERES will need to request which run they want to receive.

CERES is DAO's largest customer.

In the AM-1 time-frame, DAO data will be distribute via the ECS system through the Goddard DAAC. GSFC DAAC and DAO should work on an operations agreement between GSFC DAAC and DAO. An ICD already exists between DAO and ECS.

DAO plans to upgrade from a Cray90 to an SGI Origin 2000 this next year.

Meeting adjourned at 11:30am ses